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APPLICANT: MATSUSHITA ELECTRIC IND CO LTD;

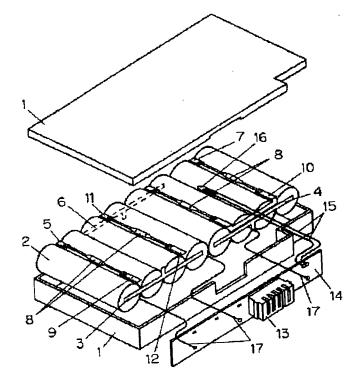
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TITLE

BATTERY PACK



ABSTRACT :

PROBLEM TO BE SOLVED: To enhance safety in the constitution of unit cells and a temperature sensitive element of a battery pack used in small portable communication devices and notebook type personal computers.

SOLUTION: Unit cells 2 are connected with connecting plates 3, 4, 5, 6, 7 in parallel of two parts of four in series by resistance welding to constitute a battery block, some temperature sensitive element 8 is connected to one end of the connecting plate 5 on the plus side of the battery block by soldering, or some temperature sensitive elements 8 are connected in series with connecting plates 10, 11, 12 by resistance welding. These temperature sensitive elements 8 are arranged so as to come in contact with the surfaces of the unit cells 2 of a parallel connecting block of the battery block, a terminal 13 and a safety protecting circuit board 14 are fixed to the battery block, then they are housed in an outer jacket resin case 1. A battery pack with high safety in which the temperature sensitive element 8 quickly detects abnormal heat generation caused by overcharging of the unit cells 2 and shuts off the circuit is obtained.

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